KENWOOD

COMPACT HIFI SYSTEM

XD SERIES

XD-A3
XD-251
XD-301/XD-351
XD-371S

INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above.
Model availability and features (functions) may differ depending on the country and sales area.

B60-3879-08 00 (MA) (K,M,T,X,Y) OC
99/12 11 10 9 8 7 6 5 4 3 2 1 98/12 11 10 9 8 7 6 5

Units are designed for operation as follows.

U.S.A. and Canada ..... AC 120 V only
Austraria ..... AC 240 V only
Europe and U.K. ..... AC 230 V only
****Other countries ..... AC 110-120 /220-240 V switchable***

CH01

Safety precautions

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The marking of products using lasers (Except for some areas)

The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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Special features

3-Disc carousel CD player

Tree discs can be set. There are various ways for enjoyment at the time of program play back, repeat playback, random playback, etc.

Double cassette deck

Two tape decks are installed, permitting dubbing from tape to tape and relay playback.

Various Sound Settings

The desired sound type can be selected according to the music being played.
Popular (POP), rock (ROCK), jazz (JAZZ), and extra bass (EX.BASS) can be selected.

Convenient Timer Functions

An ON/OFF timer for listening at the same time each day and a sleep timer are provided.

Demonstration

When the power supply is restored after a power failure or the power cord is unplugged and plugged in again during use, this unit automatically starts the demonstration function (display only), During the demonstration, the display changes in sequence but the audio does not change. The demonstration can be canceled with the following procedure.

Cancellation of Demonstration Mode

When the power is OFF:
Demonstration mode is cancelled by pressing this key.
When the power is ON:
Switching as shown below takes place each time this key is pressed.

① Demonstration mode (execution)
② Normal display (CD or tuner display)
③ Time display

- The setting is remembered even when the power is switched off.

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

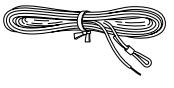
Keep this manual handy for future reference.

Accessories

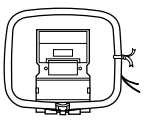
FM indoor antenna (1)

Europe and U.K.

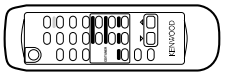
Other countries



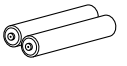
AM loop antenna (1)



Remote control unit (1)

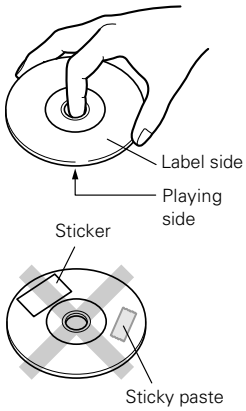


Remote control unit (1)



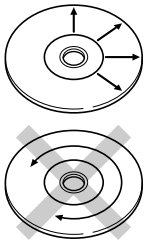
Handling of discs and tapes

Disc handling precautions

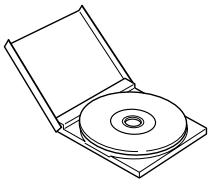


Handling
Hold compact discs so that you do not touch the playing surface.

- Do not attach paper or tape to either the playing side or the label side of compact discs.
- The paste left on the label surface after a sticker has been peeled off is a factor which may cause malfunction. If the surface is sticky due to remaining paste, be sure to clean it with alcohole before use.

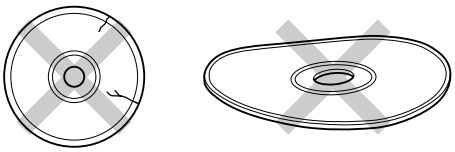


Cleaning
If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards, in a radial manner.



Storage
When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

Caution on disc used



Never play a cracked or warped disc.
During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

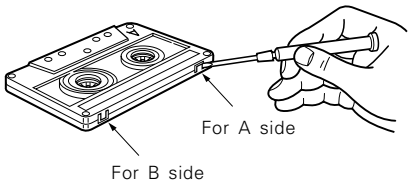
Do not use cleaning discs.
Please do not use commercially available cleaning discs, they may damage the internal mechanism.

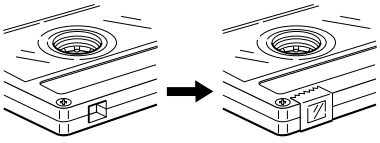
Discs which can be played with this unit

CD (12 cm, 8 cm), CDV (only the audio part)
- With CD-G (CD Graphics) discs, this unit can play only the audio.

Notes on cassette tape

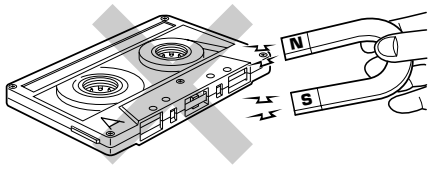
Safety tab (accidental erasure prevention tab)
After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.



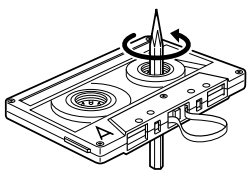


To re-record
Apply tape only to the position where the tab has been removed.

To store cassette tapes
Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



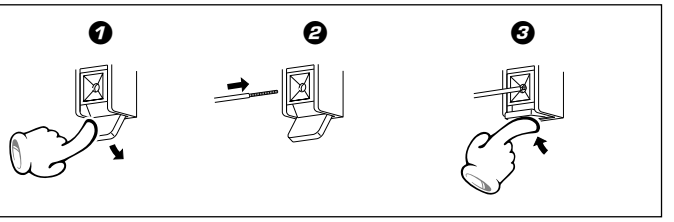
When there is slack in the tape
In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



Note

1. Longer tape than 110 minutes cassette tape
Since longer tape than 110 minutes cassette tape is very thin, the tape could adhere to the pinch roller or be easily cut. It is recommended that these tapes not be used with this unit to prevent possible damage.

2. Endless tapes
Do not use an endless tape, as this could damage the mechanism of the unit.

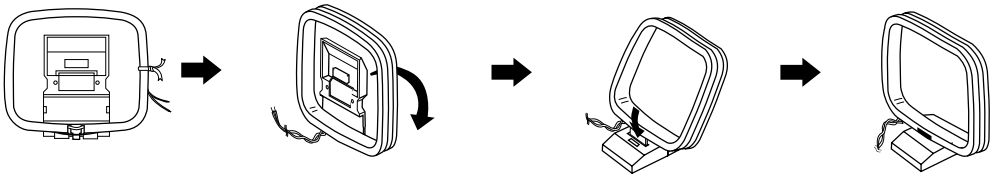


Caution regarding placement

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

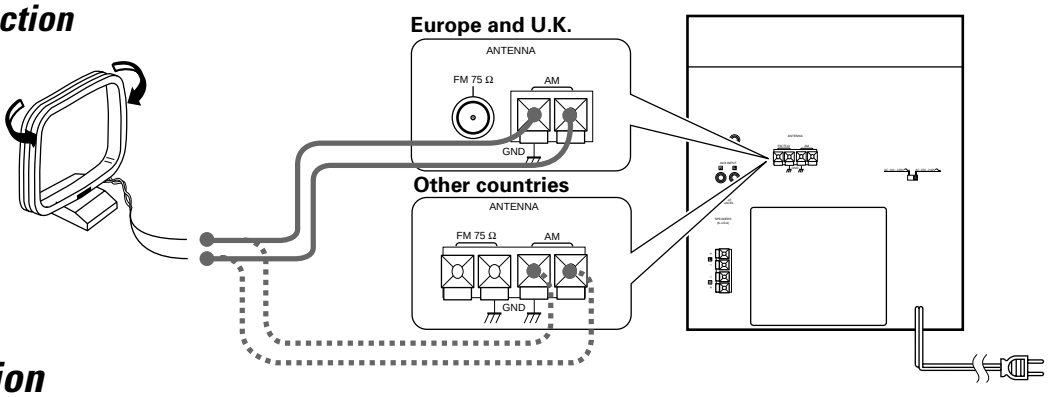
Rear panel: 10 cm

AM loop antenna connection



AM loop antenna connection

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.

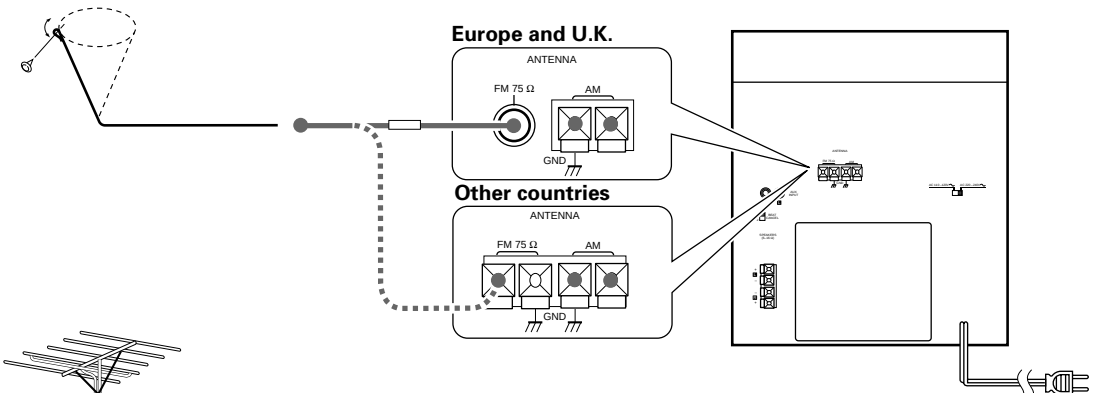


FM antenna connection

FM indoor antenna connection

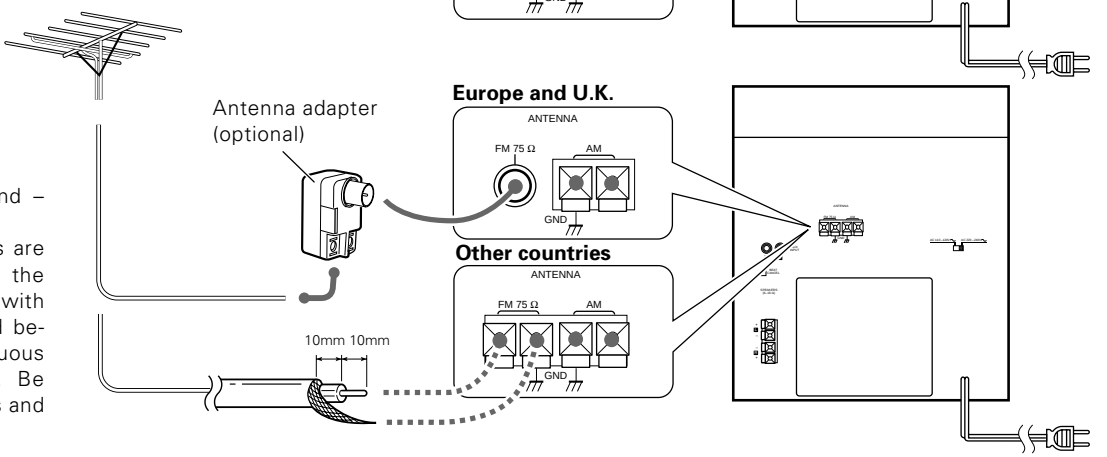
The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.

❶ Strip the coating from the tip of cord and twist the conductor.
❷ Connect to the antenna terminal.
❸ Locate the position providing good reception condition.
❹ Fix the antenna.



FM outdoor antenna

Lead the 75W coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75W termimal.

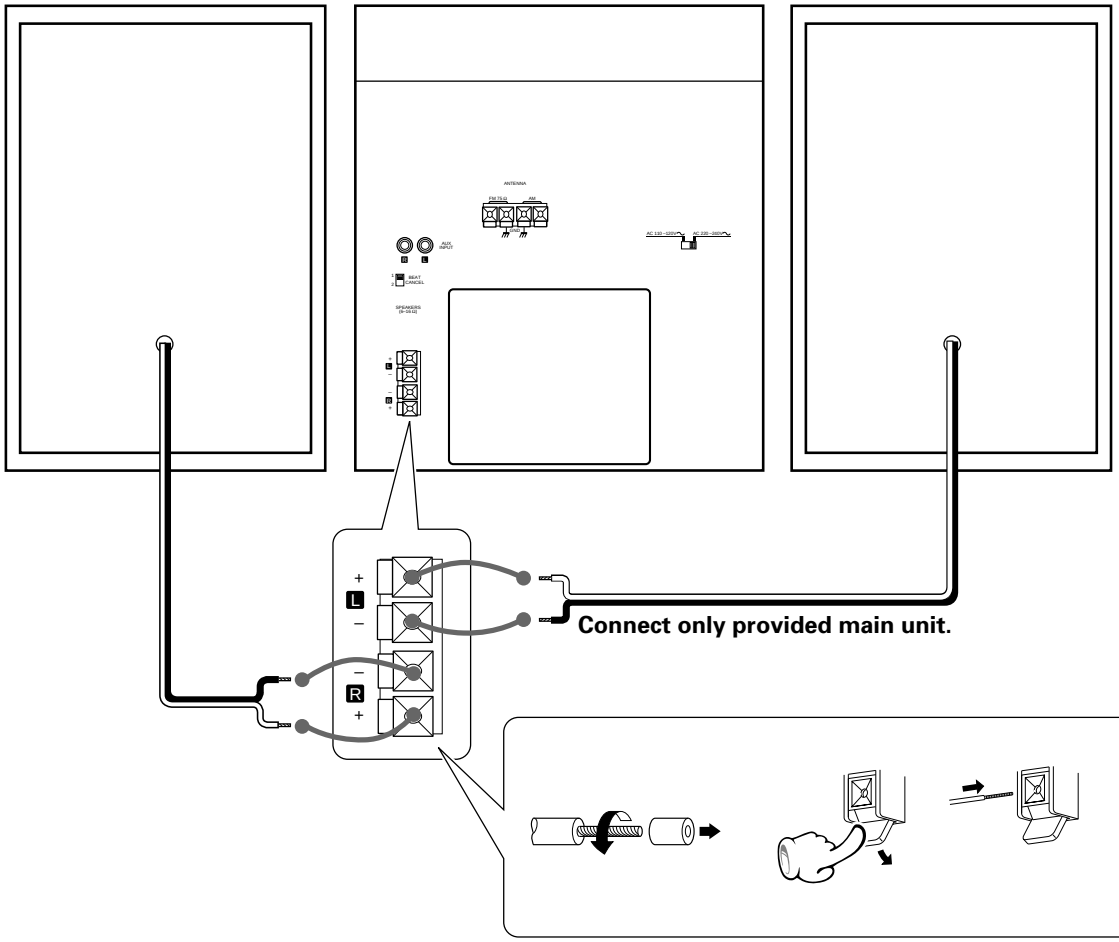


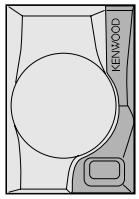
Note

- Never short-circuit the + and – speaker cords.
- If the left and right speakers are connected inversely or if the speaker cords are connected with reversed polarity, the sound becomes unnatural with ambiguous acoustic image positioning. Be sure to connect the speakers and speaker cords correctly.

Connection of the speaker systen

Do not plug the power cord into the power outlet until all of the required connections have been made.

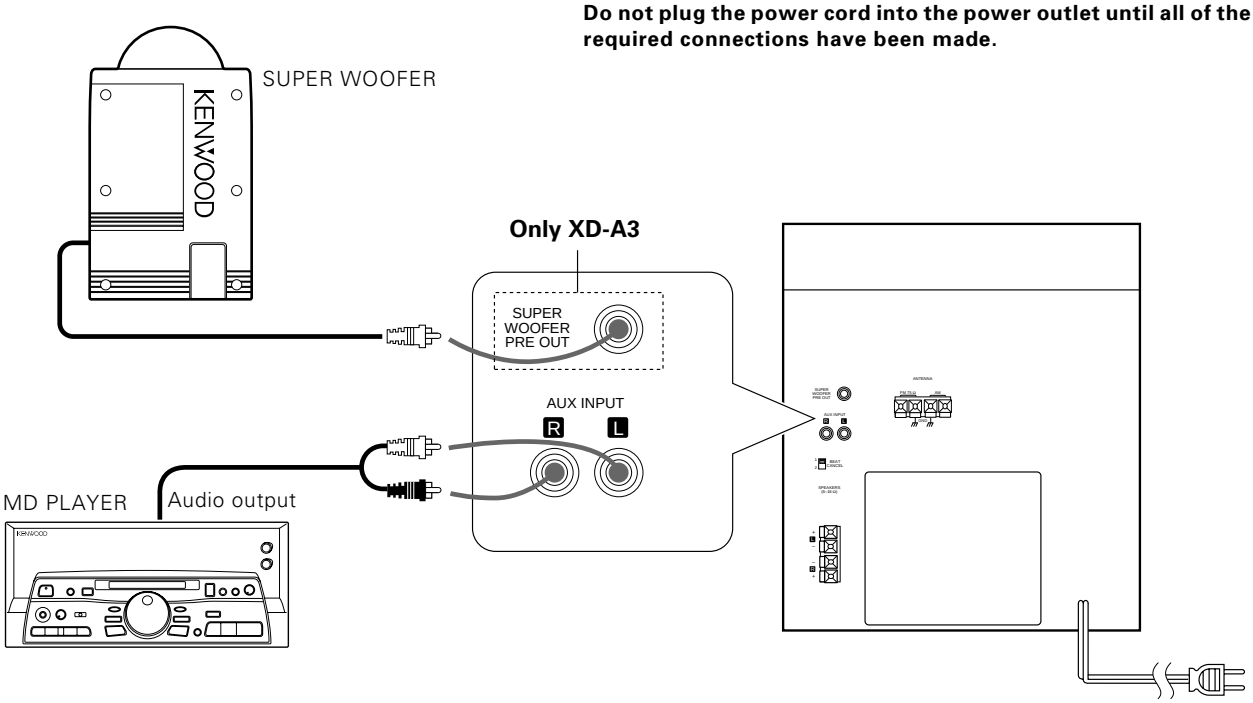




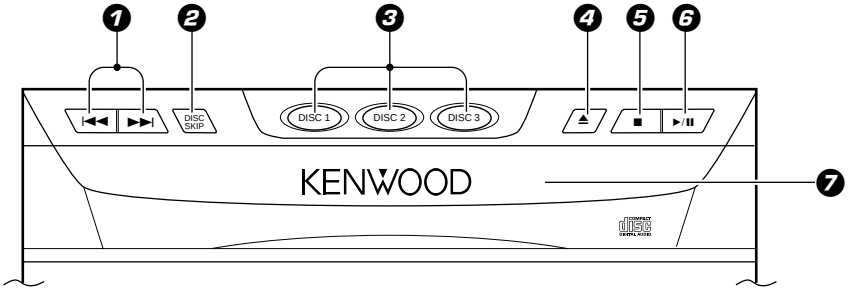
Speaker front view (the front net can not be removed)

Connection of options (Optional parts)

Connect separately sold parts as shown in the figure.
Do not plug the power cord into the power outlet until all of the required connections have been made.



CD unit



❶ Skip (I◄◄, ►►I) keys →17

❷ DISC SKIP key →17

Used to skip discs.

❸ Disc selection keys →17

The disc number is selected directly and playback starts.

❹ OPEN/CLOSE (▲) key →16

The disc tray is opened and closed.

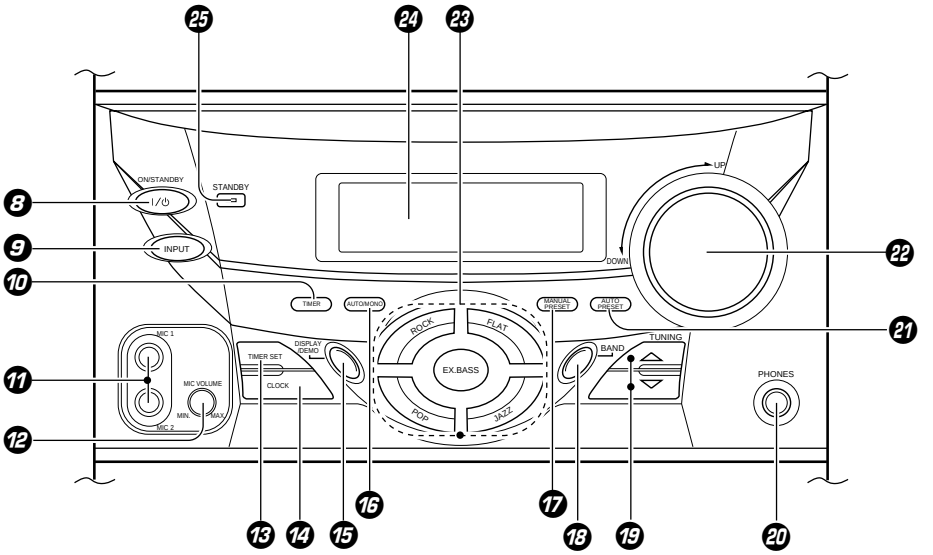
❺ Stop (■) key →16

❻ Play/pause (►/II) key →16

❼ Disc tray →16

Three discs can be stored.

Receiver unit



❽ ON/STANDBY (I/⏻) key →14

❾ INPUT key →14

Key for input switching.

❿ TIMER key →26

Key for timer START/STOP switching.

⓫ MIC 1/MIC 2 jack (except for some areas) →24

⓬ MIC VOLUME knob (except for some areas) →24

⓭ TIMER SET key →25

Used for setting the timer ON/OFF time.

⓮ CLOCK key →13

Used to set the present time.

⓯ DISPLAY/DEMO key →4 →15

Switches the display contents.

***Used for demonstration (DEMO) ON/OFF.**

⓰ AUTO/MONO key →20

Switches the tuning mode.

⓱ MANUAL PRESET key →21

Used to memorize broadcasting stations in the desired order.

⓲ BAND key →20

Press to switch the receiving band.

⓳ TUNING/ △▽ keys →13 →20 →25

Used for tuning to broadcasting stations and for time settings.

⓴ PHONES terminal →15

For connection of a headphone (optional).

㉑ AUTO PRESET key →21

Used for automatic presetting of broadcasting stations.0

㉒ VOLUME CONTROL knob →14

This is used for volume adjustment.

㉓ Sound selection keys →15

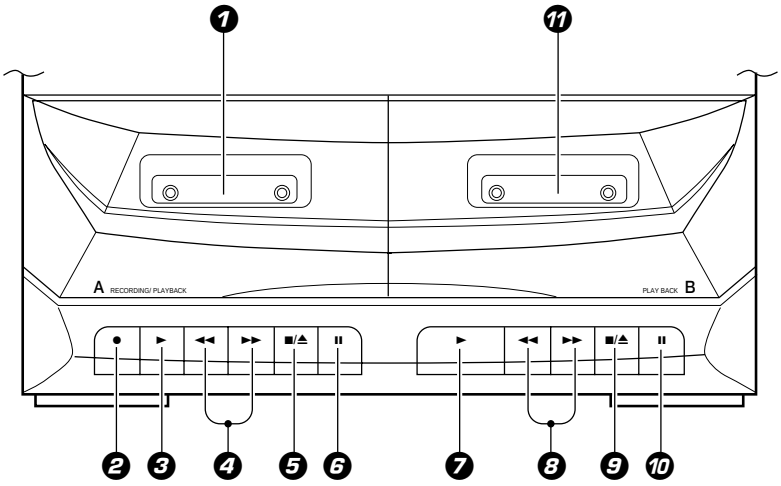
Used to select the desired sound type.

FLAT : For listening without changing the sound.
JAZZ : A sound quality curve suitable for jazz.
POP : A sound quality curve suitable for popular music.
ROCK : A sound quality curve suitable for rock-and-roll.
EX.BASS : For listening with abundant bass. (Can be used together with other sound selection keys.)

㉔ Display →11 →15

㉕ STANDBY indicator (Except for some areas)

Cassette deck unit



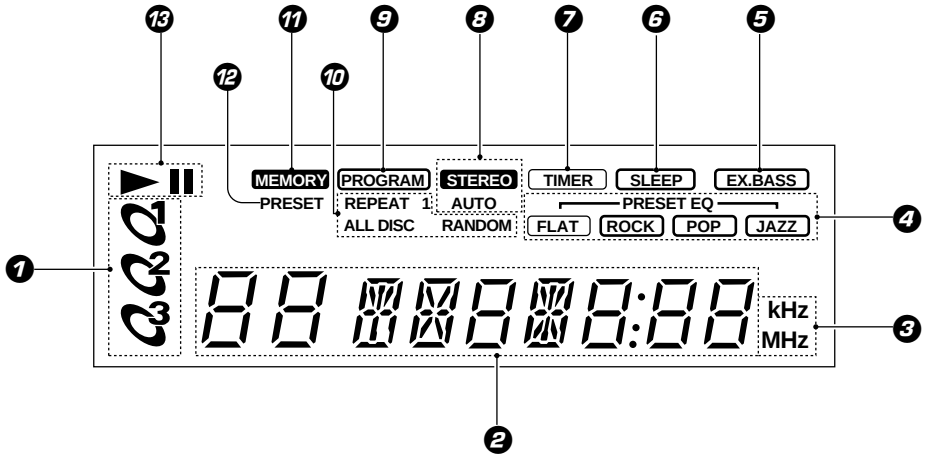
A deck

❶ **Cassette holder** → 22
Press the ■/⏏ key to remove and insert the tape.
❷ **REC (●)key** → 23
❸ **Play (►) key** → 22
❹ **Fast forward and rewind (◄◄, ►►) keys** → 22
❺ **Stop/Eject (■/⏏) key** → 22
❻ **Pause (II) key** → 22

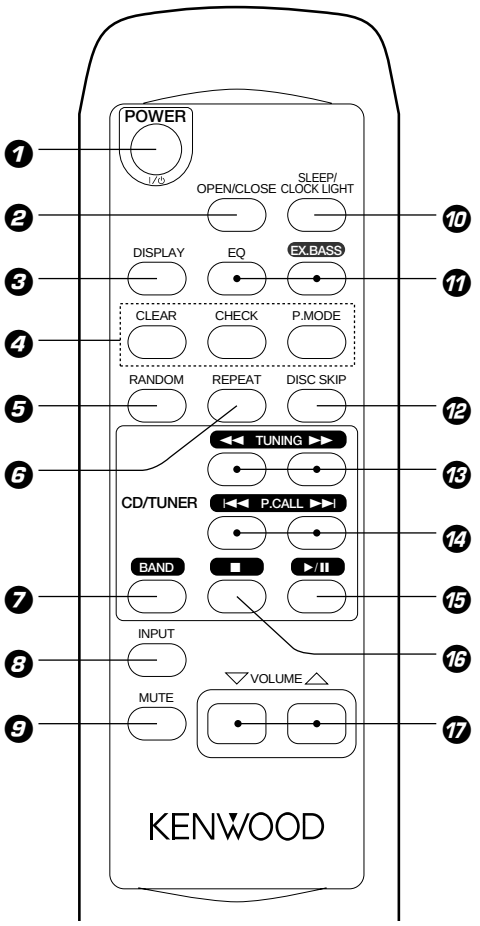
B deck

❼ **Play (►) key** → 22
❽ **Fast forward and rewind (◄◄, ►►) keys** → 22
❾ **Stop/Eject (■/⏏) key** → 22
❿ **Pause (II) key** → 22
⓫ **Cassette holder** → 22
Press the ■/⏏ key to remove and insert the tape.

Display



❶ **Disc display**
When CD is selected, the numbers for which a disc has been set light.
❷ **Letter and number display**
Title number, playback time, present time, etc. are displayed.
❸ **Reception frequency unit indication (kHz/MHz)**
❹ **Sound selection indication**
❺ **Extra bass (EX.BASS) indication**
❻ **Sleep timer (SLEEP) indication**
❼ **Timer (TIMER) indication**
❽ **STEREO/AUTO indication**
Indication of the reception mode for stereo broadcasts
❾ **PROGRAM indication**
Lights at the time of program mode.
❿ **Repeat/Random mode indication**
⓫ **MEMORY indication**
Shows when a broadcasting station is memorized.
⓬ **PRESET indication**
⓭ **Playback (►), Pause (II) indication**



The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

❶ POWER (| / ⏻) key → 14
Power ON/OFF switching is executed.

❷ OPEN/CLOSE (⏏) key → 16
The disc tray is opened and closed.

❸ DISPLAY (DEMO) key → 4 → 15

❹ CD program-related keys → 18 → 19
CLEAR key/**CHECK** key/Program mode (**P.MODE**) key

❺ RANDOM key → 17
Used for CD random playback.

❻ REPEAT key → 17
Used for CD repeat playback.

❼ BAND key → 20

❽ INPUT key → 14

❾ MUTE key → 15
Used for temporary muting.

❿ SLEEP/CLOCK LIGHT key
When the power is ON :
key for setting the sleep timer → 26
When the power is OFF :
The display light lights → 15

⓫ EQ key → 15
Switching between FLAT/JAZZ/POP/ROCK
EX.BASS key → 15

⓬ DISC SKIP key → 17

⓭ TUNING (◄◄, ►►) keys → 17 → 20
Used for reception frequency tuning and as CD skip and search keys.

⓮ P.CALL (|◄◄, ►►|) keys → 18 → 20
Used to call preset broadcasting stations and as CD skip keys.

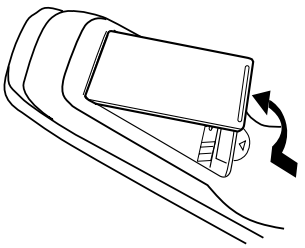
⓯ (CD) Play/pause (►/II) key → 16

⓰ (CD) Stop (■) key → 16

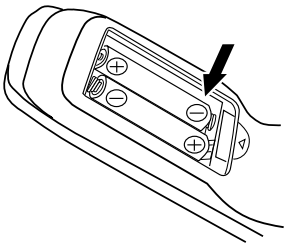
⓱ VOLUME key → 14

Loading batteries

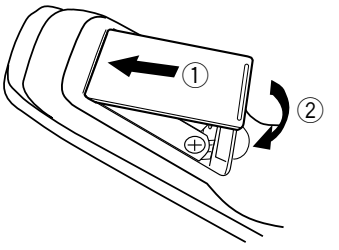
❶ Remove the cover.



❷ Insert batteries.



❸ Close the cover.

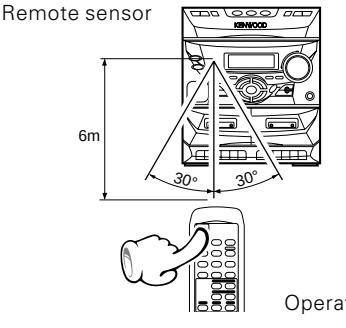


- Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

Plug the power cord into the mains power outlet and press the on/standby (| / ⏻ POWER) key of the remote control unit to turn power ON. After the power has been turned ON, press the desired key.
To turn power off, press the on/standby (| / ⏻ POWER) key again. The system enters the standby mode in which only the time display is lit.

- When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.



Notes

1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high- frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

CHANNEL SPACE setting

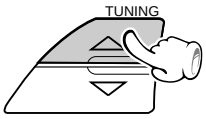
(Except for the U.S.A., Canada, U.K. Europe and Australia)

The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM (SW/MW/FM) broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

Area		CHANNEL SPACE freq.
1	USA, Canada and South American countries	FM : 100 kHz AM : 10 kHz
2	Other countries	FM : 50 kHz AM : 9 kHz

❶Turn power off.

❷Press the TUNING (△) key.



Each press switches the space frequency alternately.
① "50/9 " ..... FM 50 MHz/AM 9 kHz STEP
② " 100/10 " ..... FM 100 MHz/AM 10 kHz STEP

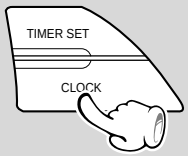
❸Establish the selection. (Press the BAND key.)

Setting the Present Time

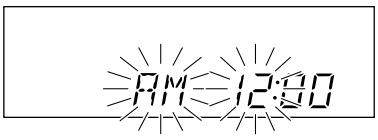
Set the present time after the AC cable has been connected to a receptacle. (In case of demonstration mode, first cancel the demonstration mode.)

The timer will not operate correctly when the present time is not correct.

1. Press the CLOCK key.



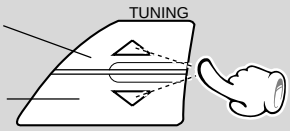
- When the power is OFF, it is switched ON when the CLOCK key is pressed.



2. Use the TUNING keys to set the hours.

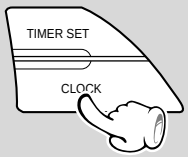
The "hour" unit increases.

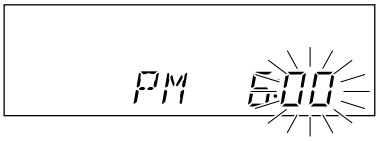
The "hour" unit decreases.



- When the key is kept pressed, the numbers will start to change faster after a little time.
- After AM, the indication switches to PM.

3. Press the CLOCK key.

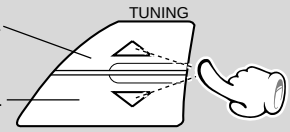


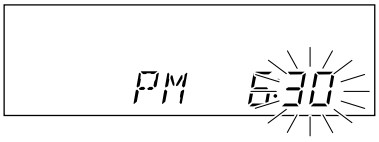


4. Use the TUNING keys to set the minutes.

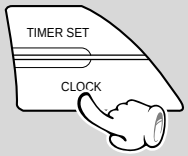
The "minute" unit increases.

The "minute" unit decreases.

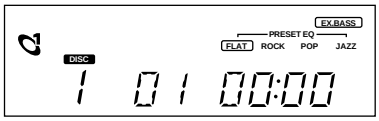




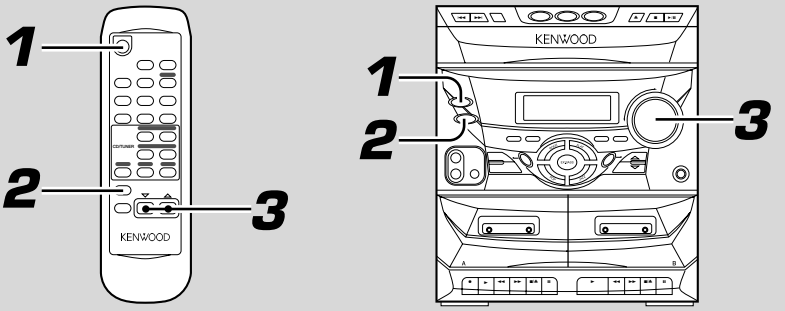
5. Press the CLOCK key.



- The normal display (CD or tuner display) appears.



Basic use method

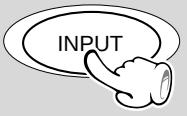


1. Switching the power ON (OFF)

ON/STANDBY

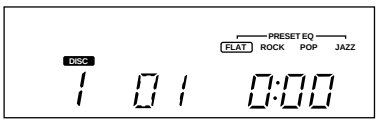
The power can also be turned ON by pressing the play key of the CD player, or the BAND key of the tuner.
When the ON/STANDBY key is pressed while the power is ON, the power will be switched OFF.

2. Selecting the desired output



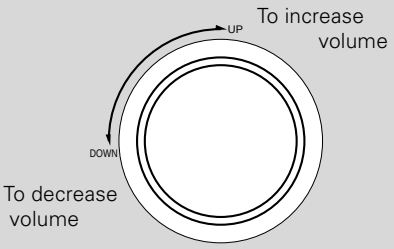
- ① **TUNER (Radio)**
- ② **CD**
- ③ **TAPE**
- ④ **AUX (External input)**

When CD has been selected.

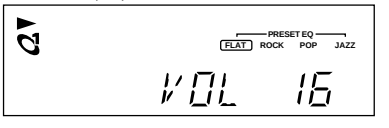


- When CD is selected, playback will start when a disc already has been inserted into deck B.

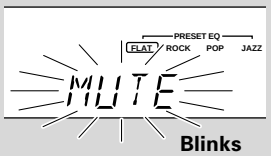
3. Volume adjustment



Volume display



Muting the sound temporarily (Remote control unit only)

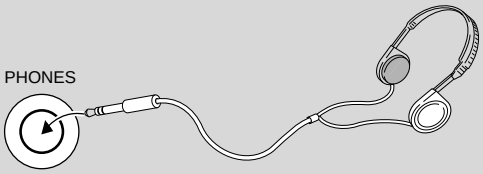


Blinks

- Press again to resume the original volume.
- The sound muting is also canceled when the volume is controlled.

Listening through headphones

Insert the headphone plug into the PHONES jack.



- The sounds from all speakers are cut off.

STANDBY mode of ON/STANDBY (| / ⏻) switch

When the power cable plug of this unit is inserted into a receptacle, a minute current flows for memory protection. This status is referred to as the STANDBY mode, and the unit in the STANDBY mode can be turned ON from the remote control unit.

For better visibility of the time display during power OFF

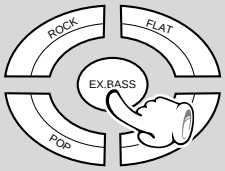
[Remote control]

When the **SLEEP/CLOCK LIGHT** key is pressed while the power is OFF, the backlight lights for about 10 seconds.

Changing the Tone

Extra Bass

The factory setting is ON.

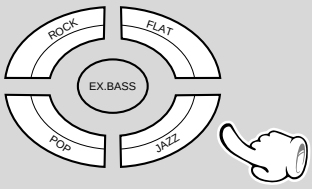


Lit

- Switching between ON and OFF each time the key is pressed.

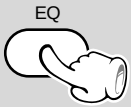
Selecting the Desired Tone

Operation on the unit



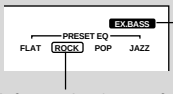
- The sound of the pressed key is selected.
- Press FLAT to cancel the selection.

Remote control operation



The sound is switched as shown below each time the key is pressed.

① ROCK
② POP
③ JAZZ
④ FLAT (cancelled)



Simultaneous use with EX.BASS is possible.

A frame is shown for the selected sound.

Display Switching

When the power is ON, the display indication can be switched.

During CD Playback

Each time the **DISPLAY/DEMO** key (the **DISPLAY** key in case of remote control) is pressed, the indication changes as shown below.

① Number of the disc being played/title No./elapsed time
② Number of the disc being played/title No./remaining time of the title
③ Number of the disc being played/title No./*remaining time of the disc
④ Present time (return to ① after several seconds)

***During REPEAT playback and RANDOM playback, the remaining disc time is not displayed.**

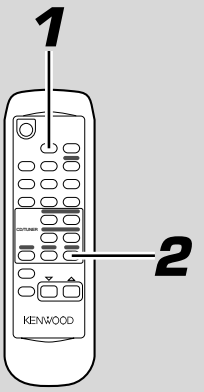
Other than During CD Playback

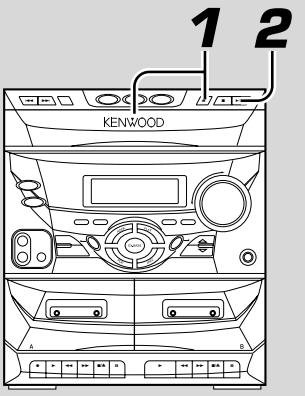
Each time the **DISPLAY/DEMO** key (the **DISPLAY** key in case of remote control) is pressed, the indication changes as shown below.

① Normal display (TAPE/AUX/TUNER indication etc.)
② Present time (return to ① after several seconds)

Sequential playback from the first track

If a disc has already been loaded in the CD player and the power is OFF, simply pressing the CD play key turns power automatically ON and starts playback.



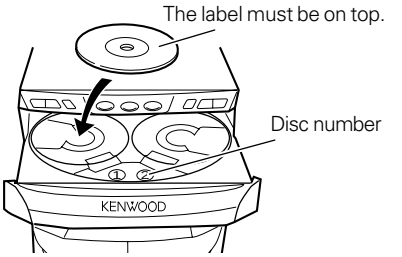


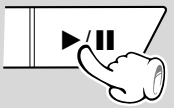
The tray opens when the key is pressed and closes when the key is pressed again.

1. Load a disc.

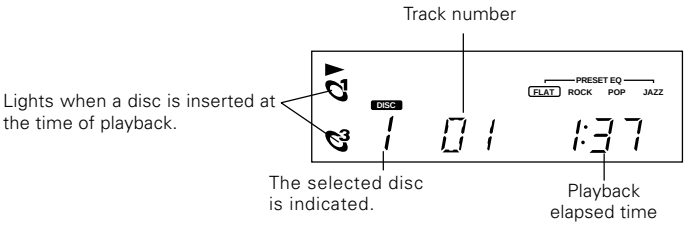
❶ Open the tray.
❷ Place a disc.
❸ Close the tray.

- Do not touch the played side of disc.
- Set the disc correctly according to the tray groove. (Diagonal setting of a disc can cause trouble.)





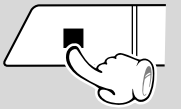
2. Start playback.



To pause playback

- Each press pauses and plays the CD alternately.

To stop playback



Caution for Disc Handling

Do not use a disc with exposed adhesive from attached cellophane or a rental CD seal, or from which such a seal etc. has been removed. When such a disc is played, removal may become impossible, and trouble can be caused.

CAUTION

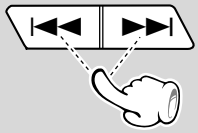
Do not look into the laser light.
Laser light getting into your eyes can impair your vision.

XD SERIES (En)

Playback from the desired track

Skipping tracks

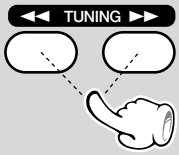
To skip backward *To skip forward*



Pressing the I◄◄ key once returns to the begining of the track being played.

High-speed search in forward and reverse directions (Remote control unit only)

Backward search *Forward search*



● Playback starts from the position where the key is released.

Skipping to a Different Disc

(Only at the main unit)

- Each time this key is pressed, the unit skips to the next disc and playback starts.
- When no disc is set in a tray, the unit skips to the next tray.
- Playback starts from the selected disc.
- When no disc is set in a tray, the unit skips to the next tray.

Repeat Playback (only from the remote control)

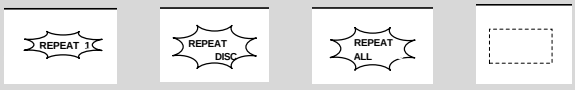
Any title or disc can be played repeatedly.

Set the input selection to "CD".

Press the REPEAT key on the remote control.

The mode is switched as shown below each time the key is pressed.

- ① **REPEAT**
  (Only the selected title will be repeated.)
- ② **DISC REPEAT**
  (The entire selected disc will be repeated.)
- ③ **ALL REPEAT**
  (All discs will be repeated.)
- ④ **Cancel (REPEAT goes out.)**



① REPEAT lights. ② DISC REPEAT lights. ③ ALL REPEAT lights. ④ The indication goes out.

Program repeat playback

- When "PROGRAM" is lit, the programmed titles will be repeated.

Random repeat playback

- During **DISC RANDOM** playback, random playback of that disc will be repeated.
- During **ALL RANDOM** playback, random playback of all discs will be repeated.

During introduction scanning

- During introduction scanning, repeat playback is possible for all discs.

Cancellation of Repeat Playback

- Press the **REPEAT** key repeatedly, until the "REPEAT" indication goes out.

Introduction Scanning and Random Playback

Introduction Scanning:
The beginning of each title on the CD will be played one after another for about 10 seconds each.
This is convenient to find a title by listening to the introductions.

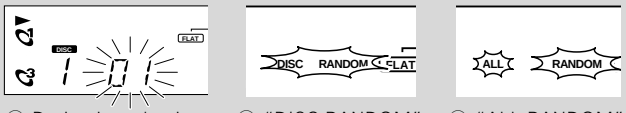
Random Playback:
As the titles each time are selected at random, the enjoyment is always new.

Set the input selection to "CD".

Press the RANDOM key on the remote control.

The mode is switched as shown below each time the key is pressed.

- ① **Introduction scanning**
  (The beginning of each title will be played for about 10 seconds.)
- ② **DISC RANDOM**
  (All titles of the selected disc will be played in random sequence.)
- ③ **ALL RANDOM**
  (The titles of all discs will be played in random sequence.)
- ④ **Cancel (RANDOM goes out)**



① During introduction scanning, the respective title number flashes. ② "DISC RANDOM" is lit. ③ "ALL RANDOM" is lit.

- The **RANDOM** key does not function when "PROGRAM" is lit. Press the **P.MODE** key on the remote control to extinguish "PROGRAM".

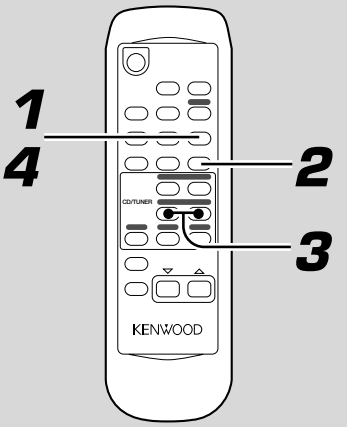
Cancellation of introduction scanning/random playback

- Press the **RANDOM** key repeatedly until the "RANDOM" indication goes out.

Operation

Listening in the desired sequence (program playback)

Any titles on the discs in the tray can be listened to in the desired sequence. (Max. 32 titles)

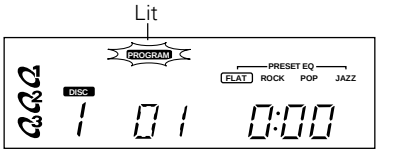


Preparation

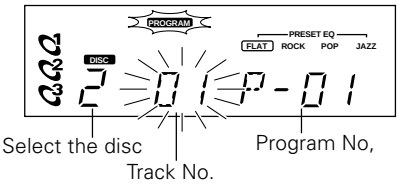
- **Insert a CD.**
- **Set to stop mode.**

1. Press the P.MODE key

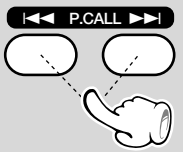
- Program mode is reached.

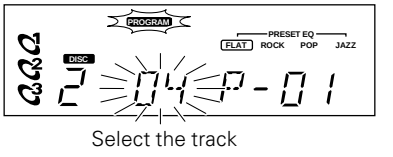


2. Select the disc.

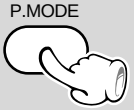


3. Select the track.

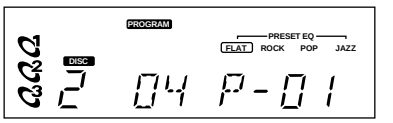




4. Press the P.MODE key



- The program No. and the title number are memorized.



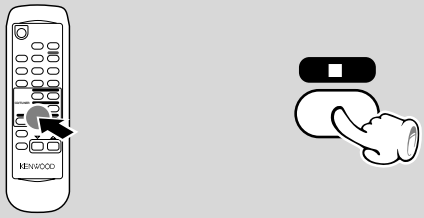
To select other tracks, repeat steps 2 to 4 for each of the additional tracks.

- The program No. automatically is incremented by one.
- When the same disc No. is to be entered, step 2 can be skipped.
- Up to 32 tracks can be programmed. When "FULL" is displayed, no more tracks can be programmed.

Start playback

- When the I◄◄ or the ►►I key is pressed during playback, the unit skips to the preceding or the next program title.
- When the I◄◄ key is pressed once during playback, return is made to the beginning of the title being played.

To stop playback

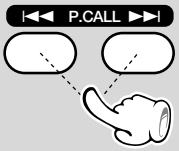


To add a track to the program

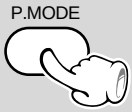
(Operation in stopped condition)

❶ Select the disc.

❷ Select the track.



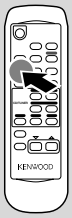
❸ Press the P.MODE key



- The added track number is added to the end of the existing program.

To clear tracks from the program

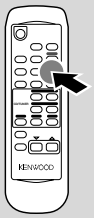
(Operation in stopped condition)

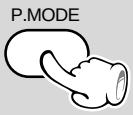


Press to clear tracks from the end.

- Each time the key is pressed, the last track in the program is cleared.

To clear all tracks.

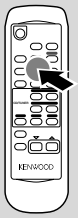




- The "PROGRAM" indication goes out.

To check the programmed tracks

(Operation in stopped condition)

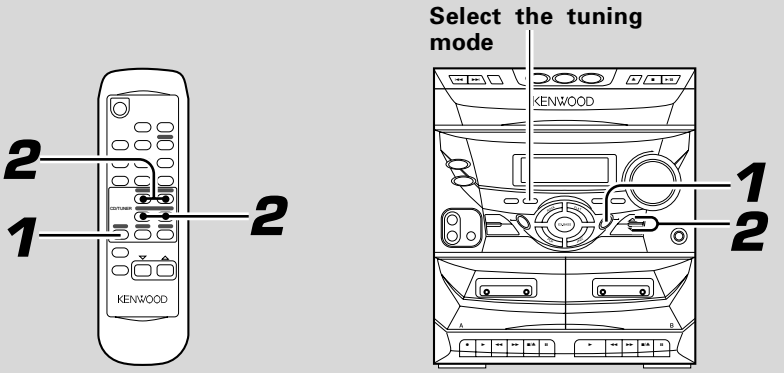


- The program contents are shown each time the key is pressed.

Receiving broadcast station

It is also possible to receive them by one-touch operations by storing up to 30 stations in the preset memory.

When the BAND key is pressed, this unit will be switched on automatically.



1. Select the broadcast band.

Each press changes the band.

- ① **FM**
- ② **AM**

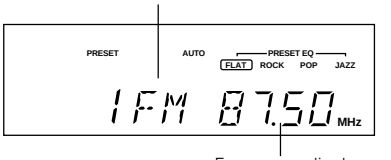
or

- ① **FM**
- ② **MW (AM)**
- ③ **LW**

or

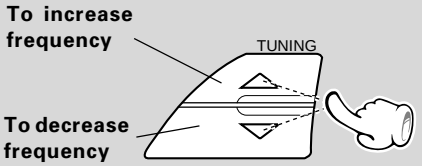
- ① **FM**
- ② **MW (AM)**
- ③ **SW**

Example when an FM station is received



Frequency display

2. Select a station.

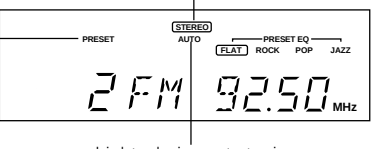


When no stations have been memorized

Auto tuning : Each press receives the next station.
Manual tuning : Press the key repeatedly or hold it depressed until a station is received.

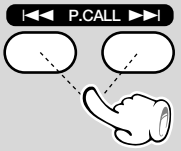
Lights during stereo reception

PRESET indicator



Lights during auto tuning.

Remote control only



When stations have been memorized (preset call)

Every time the key is pressed, the preset stations are switched over as follows.

Press ►►| for the order of 1→2→3 ... 29→30→1...
Press |◄◄ for the order of 30→29→28 ... 2→1→30...

Select the tuning mode.

Each press alternates the mode.

- ① **"AUTO" lit (Auto tuning)**
- ② **"AUTO" not lit (Manual tuning)**

Use the manual tuning mode when reception is noisy due to weak reception.
(In the manual mode, stereo broadcasts are received in monaural.)

- Normally, use the **AUTO** (Auto tuning) mode.

XD SERIES (En)

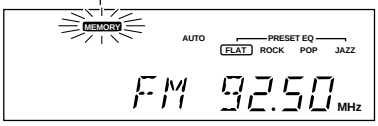
Collective presetting of stations *(auto preset)*

You can store up to 30 stations in the memory and recall them with a single touch of the key.

Press the AUTO PRESET key

Main unit only

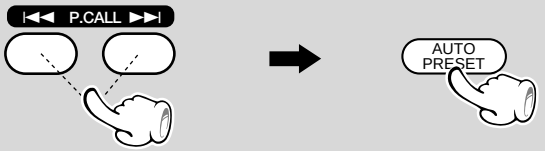
"MEMORY" flashes during operation.



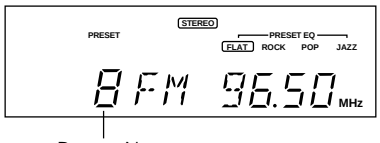
- After memorizing of the FM band, the band is switched and up to 30 stations can be memorized.

For memorizing after already stored numbers

Remote control only **Main unit only**



- On the remote control, press the P.CALL key, display the preset number, and then press the AUTO PRESET key.
- Memorizing starts with the number following the one being displayed.



Preset No.

One-by-one presetting *(manual preset)*

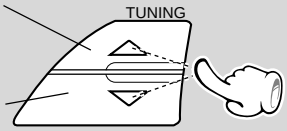
Desired stations can be selected and memorized one by one.

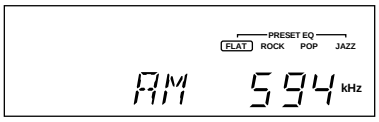
Main unit only

❶ Select a station

To increase frequency

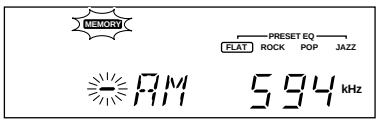
To decrease frequency





❷ Press the MANUAL PRESET key

Lit

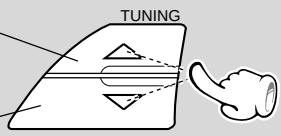


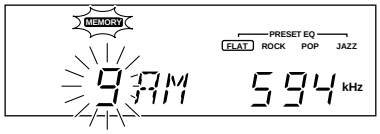
Blinks

❸ Select one of the preset numbers from 1 to 30.

The preset number increases.

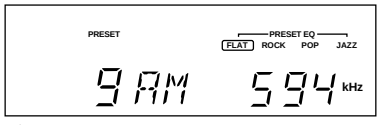
The preset number decreases.





Blinks

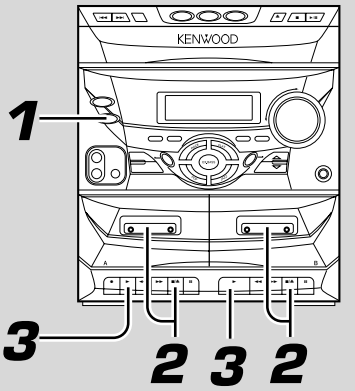
❹ Press the MANUAL PRESET key



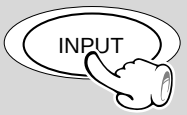
- The memorization is finalized.

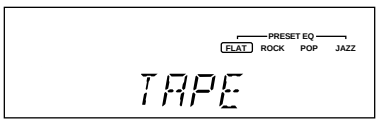
Repeat steps ❶ to ❹ to preset other stations.

With the double deck of A and B, relay playback is possible from deck B to deck A.

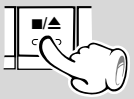


1. Switch INPUT to TAPE.



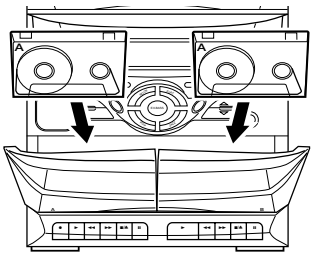


2. Load a cassette tape.

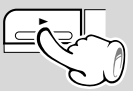


❶ **Open the door.**
❷ **Insert a tape.**
❸ **Close the door.**

- When side A is to be played, insert the tape with side A to the front.
- When only one tape is to be played, insert it into deck A or deck B.



3. Start playback.



To pause playback

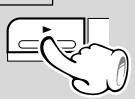
Relay Play

After playback of deck B ends, playback of deck A can be started automatically. (only deck B to deck A)

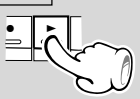
❶ **Bring deck B to playback condition.**

❷ **Press the Play (►) key of deck A and then the Pause (II) key.**

Deck B



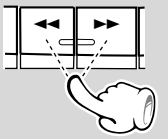
Deck A



Deck A

Playback of deck A starts when the playback of deck B ends.

To wind tape at high speed



- **Press the ■ key to stop fast winding.**

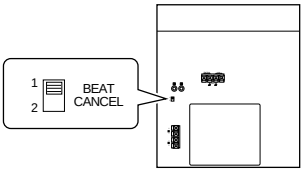
To stop playback

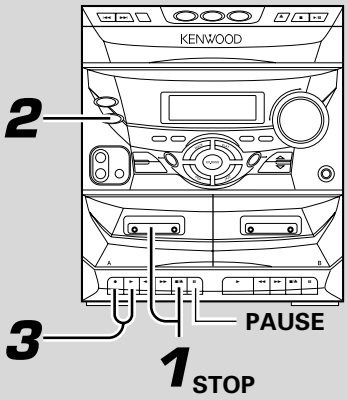
- **Do not take out the cassette tape until the tape transport has stopped completely.**

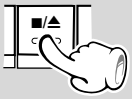
With the double deck of A and B, dubbing is possible from deck B to deck A.

Beat cancel function

There may be cases in which beat noise interferes with recording of MW/LW broadcasting.
Before recording the desired program, make trial recordings with both positions of the BEAT CANCEL switch on the rear of the unit, and then record with the setting with less beat noise.



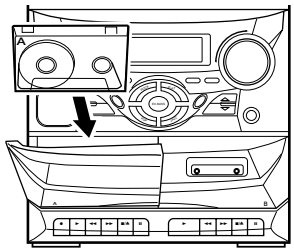


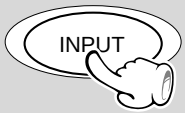


1. Load a tape in deck A.

❶ **Open the door.**
❷ **Insert a tape.**
❸ **Close the door.**

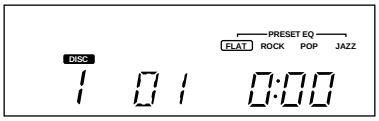
- When side A is to be recorded, insert the tape with side A to the front.





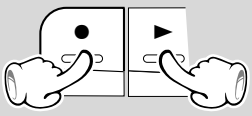
2. Select the source to be recorded.

① **TUNER (Radio)**
② **CD**
③ **TAPE**
④ **AUX (External input)**



When CD has been selected.

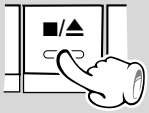
- When there is already a CD in the tray, playback will start, and the stop (■) key should be pressed to stop playback.



3. Start recording.

To pause recording

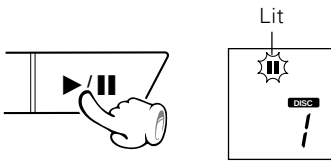
To stop recording



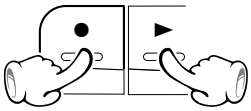
Synchronized CD Recording

When recording from a CD, it is possible to start the CD simultaneously with the start of tape recording.

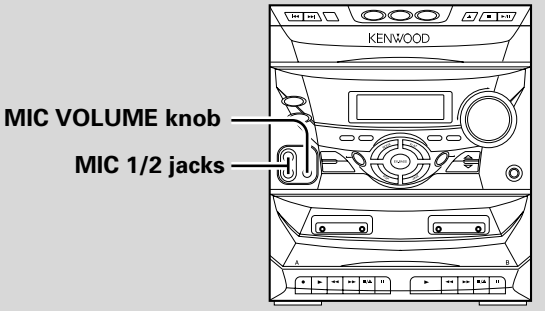
❶ **Pause the CD playback.**



❷ **Start recording.**

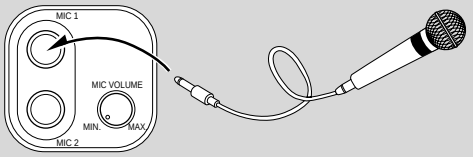


The CD starts to play when the tape Recording key is pressed.



1. Connect a microphone.

❶ **Turn the MIC VOLUME control fully counterclockwise.**



❷ **Plug the microphone into one of the MIC jacks.**

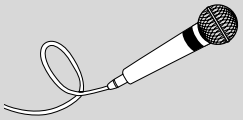
To decrease microphone volume

To increase microphone volume

❸ **Adjust the volume balance between the music input and microphone input.**

2. Play the music.

3. Sing along with the accompaniment.



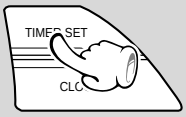
After the above steps, you can record your karaoke singing onto a tape. However, note that the karaoke singing using a tape cannot be recorded onto a tape.

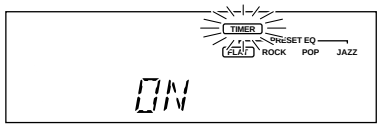
When the ON/OFF timer is used, the CD or the tuner will start to play when the set time is reached.

Setting the ON/OFF time (only on the main unit)

First, set the volume for the timer playback. →14

❶ Press the TIMER SET key.



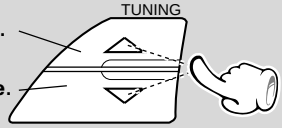


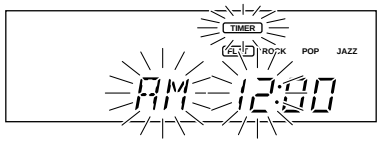
After ON has been shown for 2 or 3 seconds, the ON time input status is reached.

❷ Set the "hour" for the ON time.

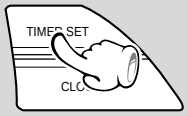
The hours increase.

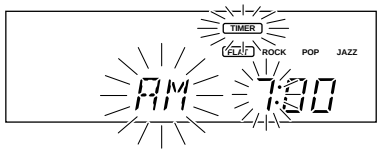
The hours decrease.



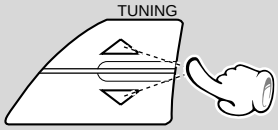


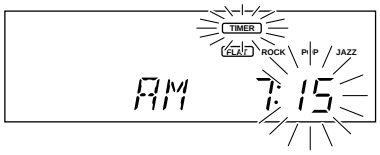
❸ Press the TIMER SET key.





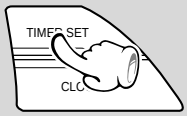
❹ Set the "minutes" for the ON time.

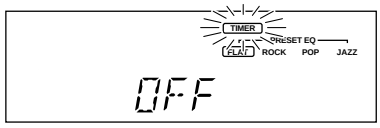




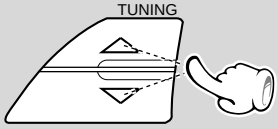
The ON time is established and OFF time input mode is reached.

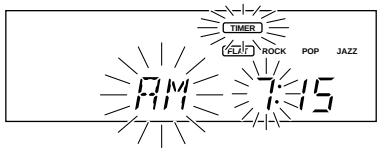
❺ Press the TIMER SET key.



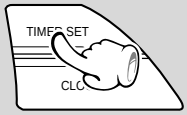


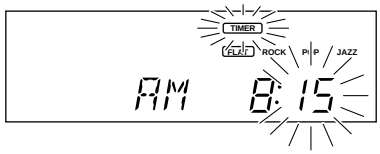
❻ Set the "hour" for the OFF time.



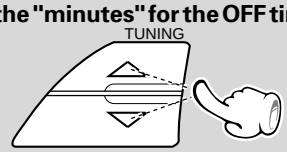


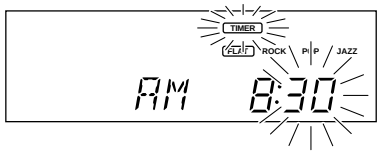
❼ Press the TIMER SET key.



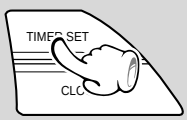


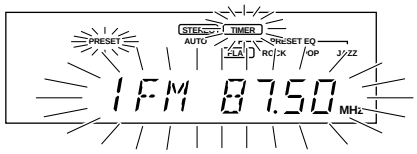
❽ Set the "minutes" for the OFF time.





❾ Press the TIMER SET key.



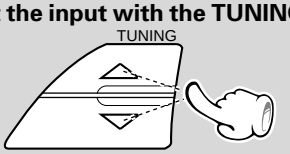


To the next page.

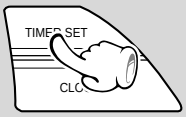
Select the input for the ON playback.

Perform this operation after the ON/OFF time has been set.

❶ Select the input with the TUNING keys.

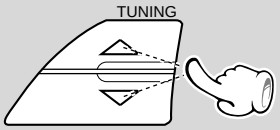


❷ Press the TIMER SET key.

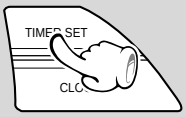


Only when the tuner has been selected

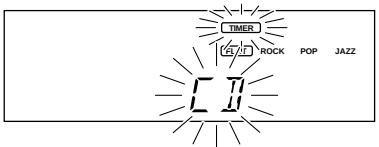
① Select the preset number.



② Press the TIMER SET key.

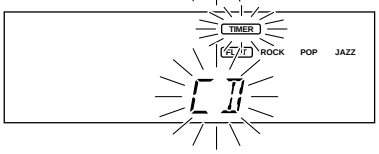


Timer setting has been completed and the setting contents are displayed.



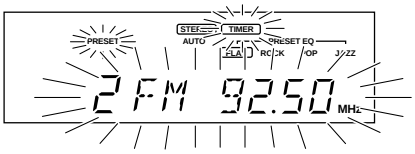
Switching is done each time the key is pressed.

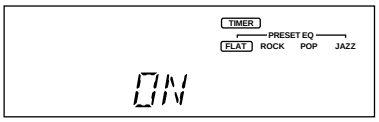
① Tuner
② CD



When CD has been selected, the timer setting has been completed and the setting contents are displayed.

When TUNER has been selected, select the preset number of the preset broadcasting station.





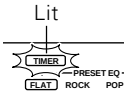
When the setting has been completed, the ON time, the OFF time, and the setting contents (CD or tuner setting contents) are displayed once, and then return is made to the normal display.

Playback start by timer/timer setting confirmation *(only on the main unit)*

Switch off the power after the timer has been set.

Switching is done each time the key is pressed.

① TIMER indication
② Not lit (cancelled)



When the timer is set, the ON time, the OFF time, and the setting contents are displayed sequentially, and then return is made to the normal display.

For Timer Playback Start

Press the TIMER key to display "TIMER", and then switch off the power.

- When the set ON time is reached, the power is switched ON and the tuner or the CD starts to play.

Use of the Sleep Timer *(only from the remote control)*

When the set time has passed, the power is switched off automatically.

Switching is done each time the key is pressed.

(90 minutes sleep timer) (Sleep timer cancelled)

SLEEP90 → SLEEP80 ---------- SLEEP 10 → SLEEPOF

When the set time has passed, the power is switched off automatically.

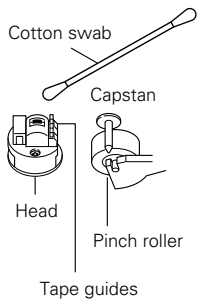
Cancellation

Press the SLEEP/CLOCK LIGHT key repeatedly or switch off the power.

Operation

Maintenance

Cleaning the head section



Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

1. Open the cassette holder.
2. Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note

There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

Maintenance of the set

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

In regardto contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the poeration after the condensation has dride up.

Be specially cautious against condensatin in a following circumsatance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

1. **Turn the power ON.**
2. **Unload the discs**
3. **Close the disc tray.**
4. **Turn power off.**

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

In case of difficulty

What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

Press the "POWER" key while holding the Stop (■) key of the CD section pressed, to switch off the power, and then switch the power on again after a few seconds.

- Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory.

Receiver, speakers

Symptom	Cause	Remedy
Sound is not produced.	● The speaker cords are disconnected. ● The **MUTE** switch of remote control unit is switched ON. ● The headphone plug is inserted into the jack.	● Connect properly referring to "System connection". → 9 ● Switch **MUTE** OFF. → 15 ● Unplug the headphone plug. → 15
Sound is not produced from the left or right speakers.	● The speaker cords are disconnected.	● Connect properly referring to "System connection". → 9
Demonstration starts suddenly.	● The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	● This is not malfunction. Press the **DISPLAY/ DEMO** key to cancel the demontration. → 4
The clock display blinks	● There was a power failure. ● The power cord was unplugged from the outlet.	● Adjust the present time again. → 13 ● Adjust the present time again. → 13
Timer operation is not possible.	● The present time has not been adjusted or there was a power failure. ● The timer ON time and OFF time have not been set. ● The timer execution was not set up.	● Adjust the present time referring to "Clock adjustment". → 13 ● Set the timer ON time and OFF time. → 25 ● Execute the timer program. → 26
Radio stations cannot be received.	● The antennas have not been connected. ● A proper broadcasting band has not been selected. ● The frequency of the station to be received is not tuned.	● Connect antennas. → 8 ● Select a band. → 20 ● Tune to the frequency of the desired station. → 20
Noise interferes.	● Car ignition noise. ● Influence of an electric appliance. ● A TV set is installed near the system.	● Install the outdoor antenna in an apart position from the road. → 8 ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	● The frequency of the preset station is not tunable. ● The preset memory has been cleared because the power cord has been unplugged for a long period.	● Preset stations with tunable frequencies. → 21 ● Preset stations again. → 21

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	● Batteries are exhausted. ● The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between. ● There is no tape or CD set in the component to be played.	● Replace with new batteries. →12 ● Operate the unit inside the remote controllable range. →12 ● Set a tape or CD in the component to be played. →16

Cassette deck

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key or no operation occurs even when an operation key is pressed.	● The head is dirty. ● The tape is wound too tight due to irregular winding. ● A nonrecorded tape is played.	● Clean the head referring to "Maintenance". →27 ● Try another tape. →22 ● Play a recorded tape.
No operation occurs even when an operation key is pressed.	● The cassette holder is not closed completely. ● A tape is not inserted in the unit. ● The tape is wound too tight due to irregular winding. ● The tape is fully wound to one of the reels.	● Close the holder completely. →22 ● Insert a tape. →22 ● Try another tape. ● Reverse the tape insertion orientation.
Sound is harsh or high frequencies are not reproduced.	● The head is dirty. ● The tape is stretched or shrunk.	● Clean the head referring to "Maintenance". →27 ● Try another tape.
Noise is noticeable.	● The tape head is magnetized. ● External noise is induced. ● A tape recorded with Dolby NR ON is being played on this unit.	● Demagnetize the head referring to "Maintenance". →27 ● Install the system at a distance from other electric appliances and TV. ● This unit can not play tapes recorded with Dolby NR ON with the correct sound quality
Sound vibrates.	● The capstans or pinch rollers are dirty. ● The tape is wound irregularly.	● Clean the head referring to "Maintenance". →27 ● Wind the tape again by fast forwarding, rewinding or playing from an end to the other. →22
Recording cannot be started by pressing the record key.	● The recording protect tab of the cassette has been broken. ● The cassette holder is not closed completely. ● The tape is fully wound to one of the reels.	● Use a cassette with an unbroken recording protect tab or block the hole. →7 ● Close the holder completely. →22 ● Reverse the tape insertion orientation. →22

Notes

1. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not a malfunction.
2. Do not use longer tape than 110 minutes tapes, for the tape is too thin and gets easily tangled.

CD player

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	● The disc is placed upside down. ● The disc position is displaced. ● The disc is extremely dirty. ● The disc is scratched. ● Dew is condensed on the optics lens.	● Place the disc properly, with the label side facing upward. → 16 ● Place the disc properly. → 16 ● Clean the disc referring to "Disc handling precautions". → 7 ● Try another disc. → 16 ● Refer to "Caution on condensation" and remove the condensation by evaporation. → 27
Sound is not produced.	● The disc has not been placed. ● The player is not put to the play mode. ● The disc is extremely dirty. ● The disc is scratched.	● Place a disc in the CD player. → 16 ● Press the play key. → 16 ● Clean the disc referring to "Disc handling precautions". → 7 ● Try another disc. → 16
Sound skips.	● The disc is dirty. ● The disc is scratched. ● The player is subject to vibration.	● Clean the disc referring to "Disc handling precautions". → 7 ● Try another disc. ● Install the unit in a place not subject to vibrations.

WARNING NOTICE:
IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

Main unit

[Amplifier section]

(XD-A3)

Rated power output (U.S.A. and Canada)

> **30 watts per channel minimum RMS, both channels driven, at 6 Ω form 60 Hz to 14 kHz with no more than 0.9 % total harmonic distortion.**

Effective output power during STEREO operation
U.S.A. and Canada
1 kHz, 10 % T.H.D., 6 Ω ..... 40 W + 40 W

(XD-251/XD-301)
Effective output power during STEREO operation
1 kHz, 10 % T.H.D., 6 Ω ..... 40 W + 40 W

Rated output power during STEREO operation
Europe, U.K. and Russia
(DIN) 1 kHz, 0.7 % T.H.D., 6 Ω ..... 30 W + 30 W
Other countries
1 kHz, 1.0 % T.H.D., 6 Ω ..... 30 W + 30 W

(XD-351/XD-371S)
Effective output power during STEREO operation
Europe, U.K. and Russia.
1 kHz, 10 % T.H.D., 6 Ω ..... 40 W + 40 W
Other countries
1 kHz, 10 % T.H.D., 6 Ω ..... 60 W + 60 W

Rated output power during STEREO operation
Europe, U.K. and Russia
(DIN) 1 kHz, 0.7 % T.H.D., 6 Ω ..... 30 W + 30 W
Other countries
1 kHz, 1.0 % T.H.D., 6 Ω ..... 40 W + 40 W

Input sensitivity / inpedance
AUX ..... 300 mV / 40 kΩ
(XD-351/XD-371S)
MIC 1, 2 (Except for some arears) ..... 2.5 mV / 2.2 kΩ
Output level / impedance
(XD-A3)
SUPER WOOFER PREOUT ..... 1.8 V / 0.6 kΩ

[Tuner section]

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz

(For Russia) ..... 87.5 MHz ~ 108 MHz
65.0 MHz ~ 74.0 MHz

AM (MW) Tuner section
Tuning frequency range
Europe, U.K. and Russia ..... 531 kHz ~ 1,602 kHz
U.S.A. and Canada ..... 530 kHz ~ 1,700 kHz
Other countries
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

LW Tuner section (For U. K.)
Tuning frequency range ..... 153 kHz ~ 279 kHz

SW Tuner section (XD-371S)
Tuning frequency range ..... 5.95 MHz ~ 17.9 MHz

[Cassette deck section]

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 105 kHz)
Heads
A deck Playback / recording head 1
Erasing head 1
B deck Playback head 1
Motor 1
Fast winding time ..... Approx. 100 seconds
(C-60 tape)

[CD player section]

Laser ..... Semiconductor laser
Wow & Flutter ..... Less than unmeasurable Limit

[General]

Power consumption ..... (XD-A3/XD-301) 150 W
(XD-351 for Europe and U.K.) 150 W
(XD-351 for other countories) 180 W
(XD-371S) 180 W
Dimensions ..... W: 280 mm (11")
H: 320 mm (12-5/8")
D: 405 mm (15-15/16")
Weight (net) ..... (XD-A3/XD-301) 6.9kg (15.2 lb)
(XD-351 for Europe and U.K.) 6.9kg (15.2 lb)
(XD-351 for other countories) 9.1kg (20.1 lb)
(XD-371S) 9.1kg (20.1 lb)

Speakers (LS-N301/LS-N351) XD-A3/XD-251/XD-351 (Europe, U.K. and Russia)

Enclosure ..... Bass-reflex type
Speaker configuration
Woofer ..... 130 mm, cone type
Tweeter ..... 50 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 40 W
Dimensions ..... W: 220 mm (8-11/16")
H: 320 mm (12-5/8")
D: 295 mm (11-5/8")
Weight (net) ..... 3.3 kg (7.3 lb) (1 piece)

Speakers (LS-N371) XD-351 (other countries)/XD-371S

Enclosure ..... Bass-reflex type
Speaker configuration
Woofer ..... 160 mm, cone type
Tweeter ..... 50 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 60 W
Dimensions ..... W: 220 mm (8-11/16")
H: 320 mm (12-5/8")
D: 295 mm (11-5/8")
Weight (net) ..... 3.7 kg (8.2 lb) (1 piece)

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model_____ Serial Number _____